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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,189	01/21/2004	Kia Silverbrook	MPA24US	2155
24011 7590 05/23/2007 SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, 2041 AUSTRALIA			EXAMINER NGUYEN, LAM S	
			ART UNIT 2853	PAPER NUMBER
			MAIL DATE 05/23/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/760,189	SILVERBROOK ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	LAM S. NGUYEN	2853	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 13 March 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

1. Claim 1 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claim cites the claimed limitation “a plurality of longitudinally extending electrical conductors ..... being arranged ..... to supply power in parallel to both ends of the printhead assembly”. This limitation was not described in the specification as filing because the specification as filing teaches that “two power supplies can be used, one at each end of the printhead assembly 10” (Specification, page 20, lines 17-21). As a result, the power supply in parallel to both ends of the printhead assembly is provided by two power supplies (not claimed), each of power supplies is provided to each end of the printhead assembly, rather than by using the claimed electrical conductors arranged in a manor to convey power in parallel from a single power supply to both ends of the printhead assembly. Therefore, the above claimed limitation is considered not described in the specification as filing.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claims 1-5 are rejected under 35 U.S.C. 102(a) as being anticipated by Silverbrook et al. (US 6612240).

Silverbrook et al. ('240) discloses a printhead assembly (FIG. 14: *Each printhead assembly comprises a PCB (108 or 110) and a printhead module including elements 104.1 and 106.1 (or 104.2 and 106.2)*), comprising:

at least one printhead module comprising at least two printhead integrated circuits (FIG. 14: *One printhead module comprising two printhead integrated circuits 106.1 and 104.1*), each of which has nozzles formed therein for delivering printing fluid onto the surface of print media (*column 6, lines 22-30*), a support member supporting and carrying the printing fluid for the at least two printhead integrated circuits (FIG. 14, *element 120: The fluid carrier 120 carries fluid along the length of the printheads*), and an electrical connector for connecting electrical signals to the at least two printhead integrated circuits (FIG. 14: *Conductors 116 connects the printheads to the PCB 108 or 110*); and

a plurality of longitudinally extending electrical conductors for providing power from a power supply to the at least two printhead integrated circuits (FIG. 14, *elements 124 and 122*), being arranged as first and second groups of electrical conductors, the first group extending from one end of the printhead assembly to a region intermediate the ends of the printhead assembly (FIG. 14: *The first electrical conductors are the cable 122 extending from the connector 124 (located at the left end of the assembly) to the connector located at the intermediate region of the assembly*), and the second group extending from the other end to

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connect to the first group at the region intermediate the ends of the printhead assembly (*FIG. 14: The second electrical conductors are the cable 122 extending from the connector located at the intermediate connector to the connector located at the right end of the assembly*) to supply power in parallel to both ends of the printhead (*Please see the Response-to-Arguments section for further explanation*).

**Regarding to claim 2:** further comprising a casing in which the at least one printhead module and the plurality of electrical conductors are removably mounted (*FIG. 9, element 56*).

**Regarding to claim 3:** further comprising drive electronics incorporating at least one controller (*FIG. 14, elements 126*) for controlling the printing operation of at least one of the at least two printhead integrated circuits via the electrical connector (*FIG. 14, elements 116*), wherein power is provided to the drive electronics by the electrical conductors via the electrical connector.

**Regarding to claim 4:** wherein the first group of electrical conductors and the second group of electrical conductors overlap each other in the intermediate the ends of the printhead assembly (*FIG. 14, element 122*).

**Regarding to claim 5:** wherein the at least one printhead module is formed as a unitary arrangement of the at least two printhead integrated circuits, the support member, the electrical connector, and at least one fluid distribution member mounting the at least two printhead integrated circuits to the support member; and the support member has at least one longitudinally extending channel for carrying the printing fluid for the printhead integrated circuits and includes a plurality of apertures extending through a wall of the support member arranged so as to direct the printing fluid from the at least one channel to associated nozzles in both, or if more than two,

all of the printhead integrated circuits by way of respective ones of the fluid distribution members (*FIG. 11, element 136*).

***Response to Arguments***

Applicant's arguments filed 03/13/07 have been fully considered but they are not persuasive.

The applicant argued that the arrangement of the electrical conductors disclosed in Silverbrook '240 is wired in series, not parallel so it failed to anticipate the claimed elements defined by claim 1. It is the examiner's point of view that as based on the description of the current invention pointed out by the applicant's remarks, the power supply in parallel to both ends of the printhead assembly is because "two power supplies can be used, one at each end of the printhead assembly 10" (Specification, page 20, lines 17-21). As a result, the power supply in parallel to both ends of the printhead assembly is by providing two power supplies (not claimed), each to each end of the printhead assembly, rather than by using the claimed electrical conductors arranged in a manor to convey power in parallel from a single power supply to both ends of the printhead assembly (not the at least two printhead integrated circuits). The power supply in parallel to both ends of the printhead assembly thus does not distinct the arrangement of the electrical conductors as claimed and that of '240. Therefore, the power supply in parallel to both ends of the printhead assembly is considered but does not carry patentable weight because the power supplies that provide power to both ends of the printhead assembly are not included in the claim. Moreover, the applicant's argument is over commensurate the scope of the claim because the claim language just simply states that the electrical conductors being arranged

to supply power in parallel to both ends of the printhead assembly. Thus the electrical conductors are not required to be wired in parallel.

### *Conclusion*

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

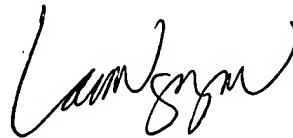
Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAM S. NGUYEN whose telephone number is (571)272-2151. The examiner can normally be reached on 7:00AM - 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, STEPHEN D. MEIER can be reached on (571)272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to read 'Lam Son Nguyen', written in a cursive style.

LAM SON NGUYEN